

APPENDIX REPORT

Project No.	SHT2108128604EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT2107089006	Model No.	TS-61
Start test date	2021-09-06	Finish date	2021-09-06
Temperature	26.1℃	Humidity	35%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

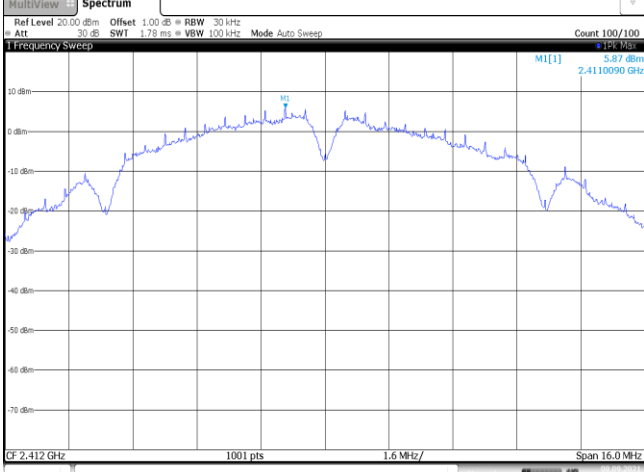
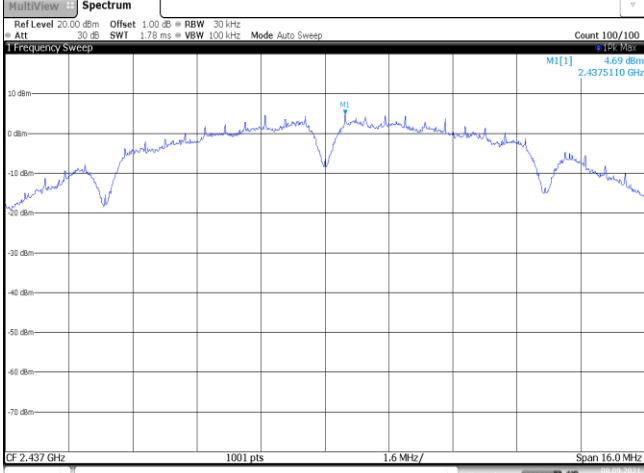
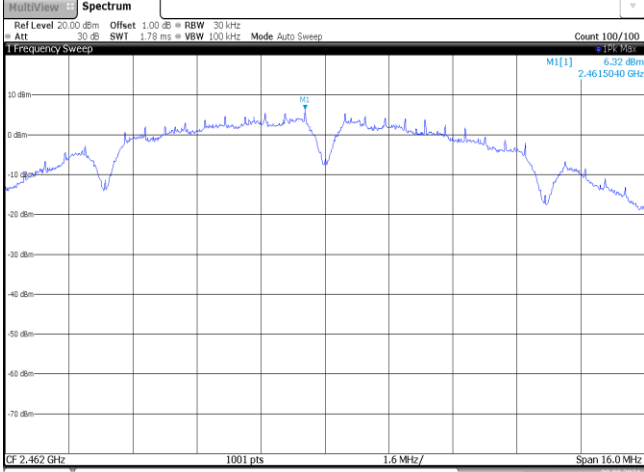
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

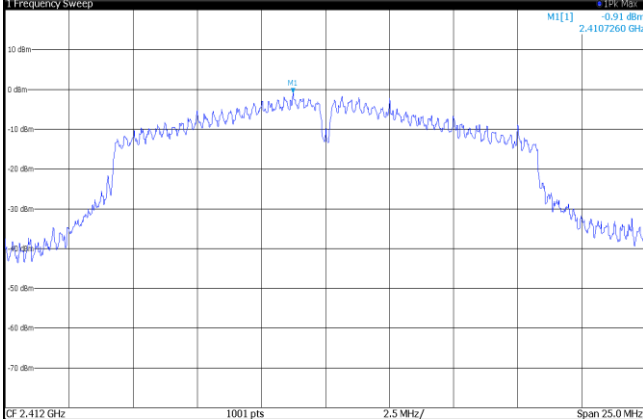
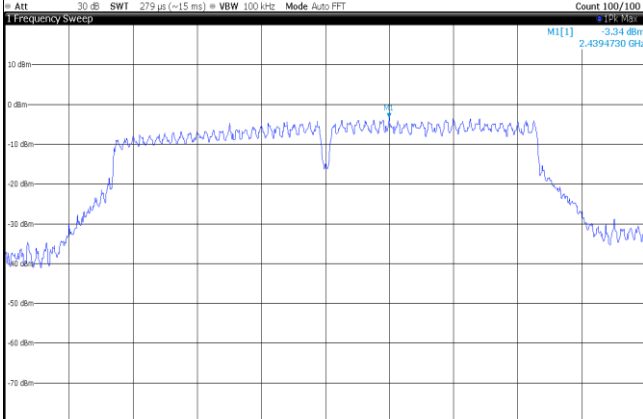
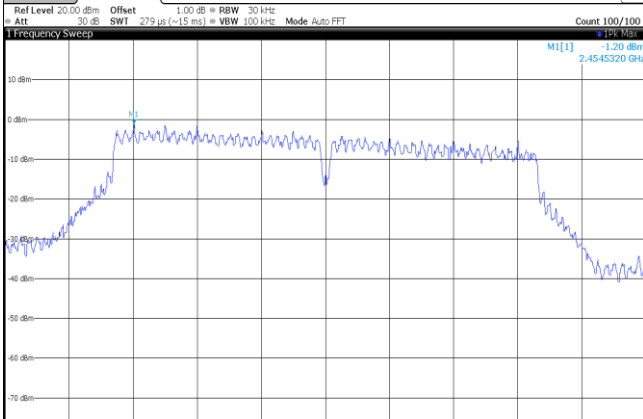
Appendix A: Conducted Peak Output Power

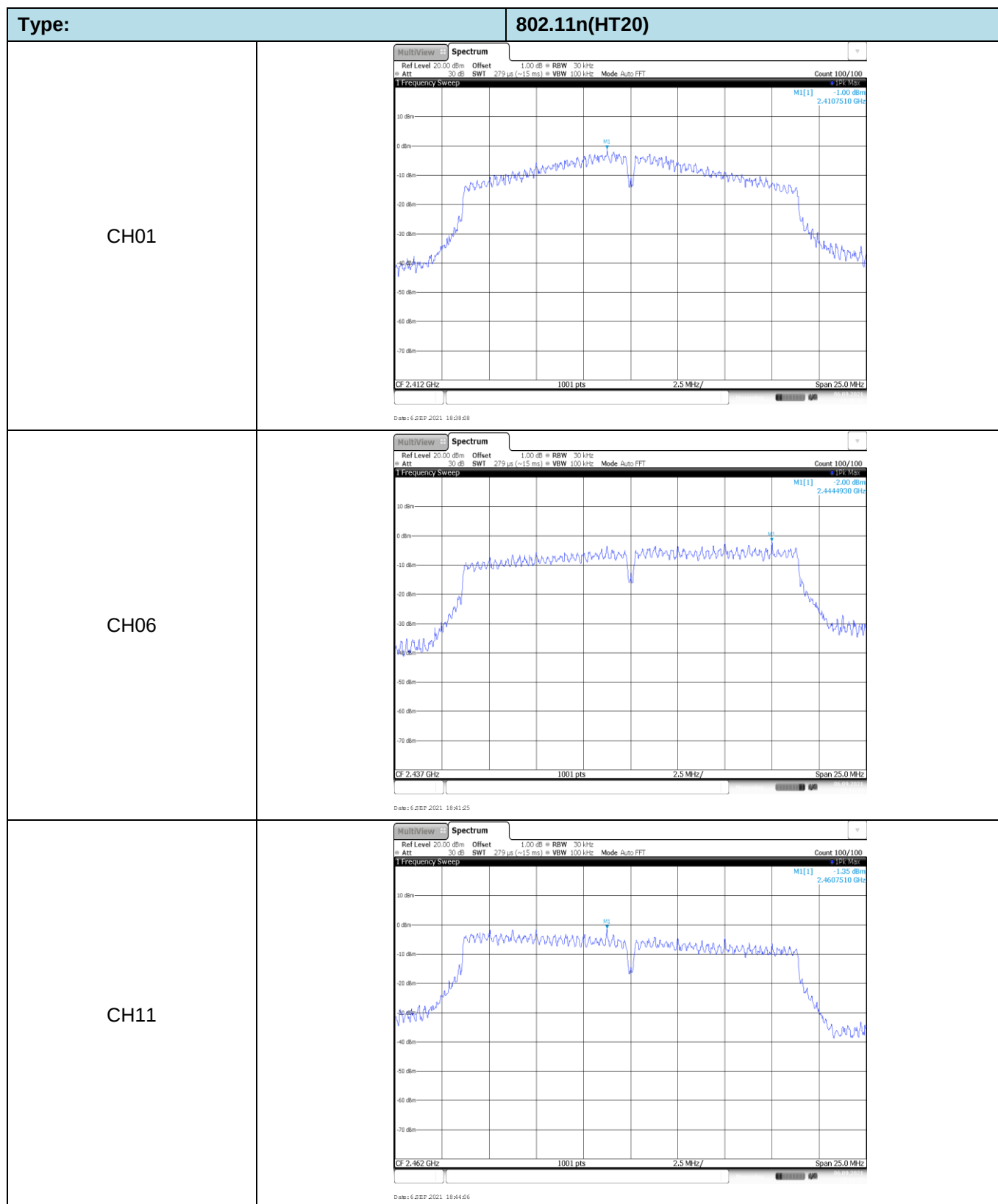
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	18.30	15.91	≤ 30.00	Pass
	06	17.86	15.42		
	11	18.65	16.21		
802.11g	01	21.19	18.63	≤ 30.00	Pass
	06	21.04	18.58		
	11	21.50	18.92		
802.11n (HT20)	01	21.11	18.68	≤ 30.00	Pass
	06	21.00	18.56		
	11	21.42	18.84		
802.11n(HT40)	03	20.23	17.54	≤ 30.00	Pass
	06	20.44	17.84		
	09	21.67	19.05		

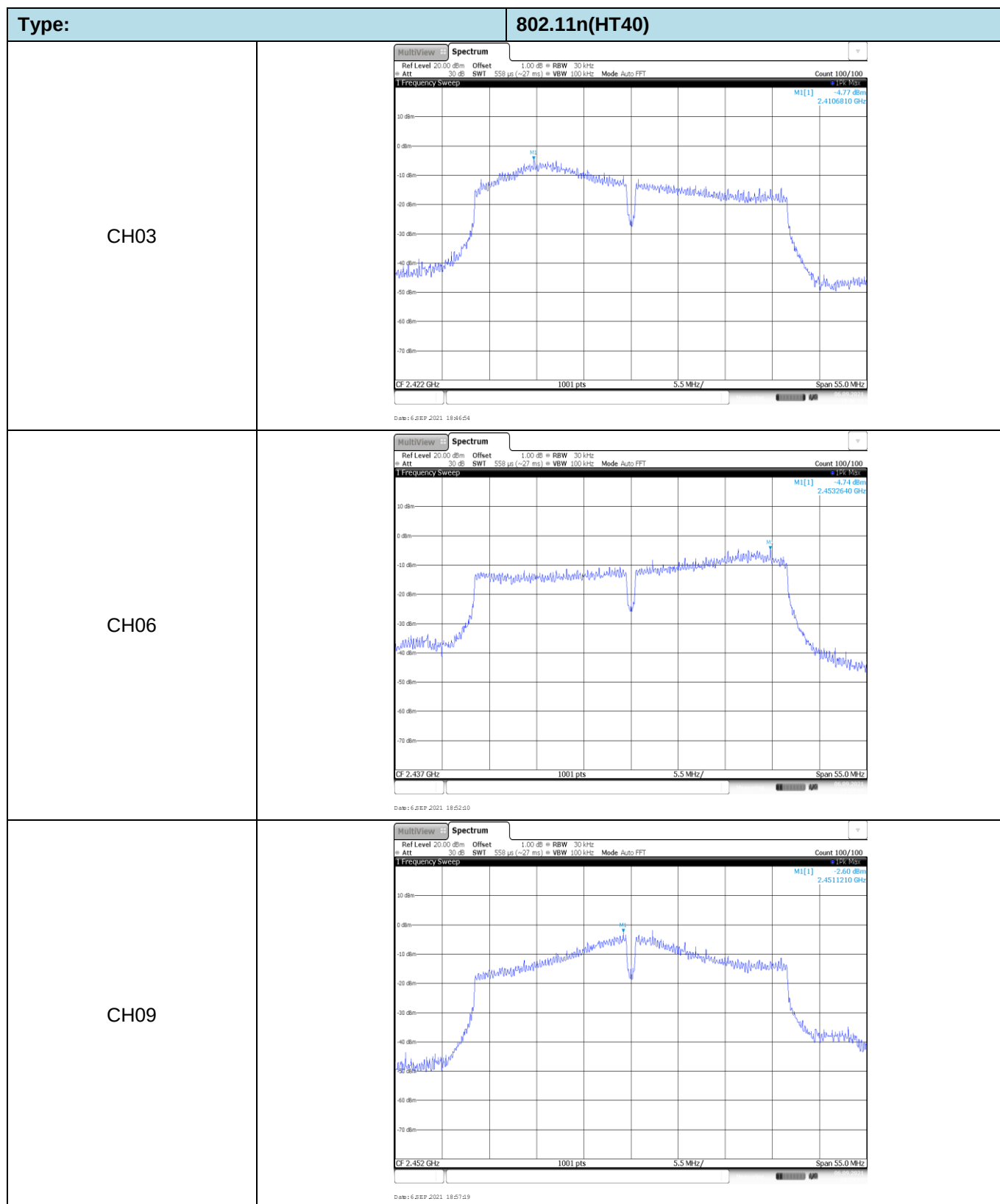
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	5.87	≤8.00	Pass
	06	4.69		
	11	6.32		
802.11g	01	-0.91	≤8.00	Pass
	06	-3.34		
	11	-1.20		
802.11n(HT20)	01	-1.00	≤8.00	Pass
	06	-2.00		
	11	-1.35		
802.11n(HT40)	03	-4.77	≤8.00	Pass
	06	-4.74		
	09	-2.60		

Type:	802.11 b
CH01	 Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 M1[1] 5.87 dBm 2.4110090 GHz CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 8 SEP 2021 20:32:43
CH06	 Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 M1[1] 4.69 dBm 2.4375110 GHz CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 8 SEP 2021 20:33:49
CH11	 Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 M1[1] 6.32 dBm 2.4615040 GHz CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 8 SEP 2021 20:35:26

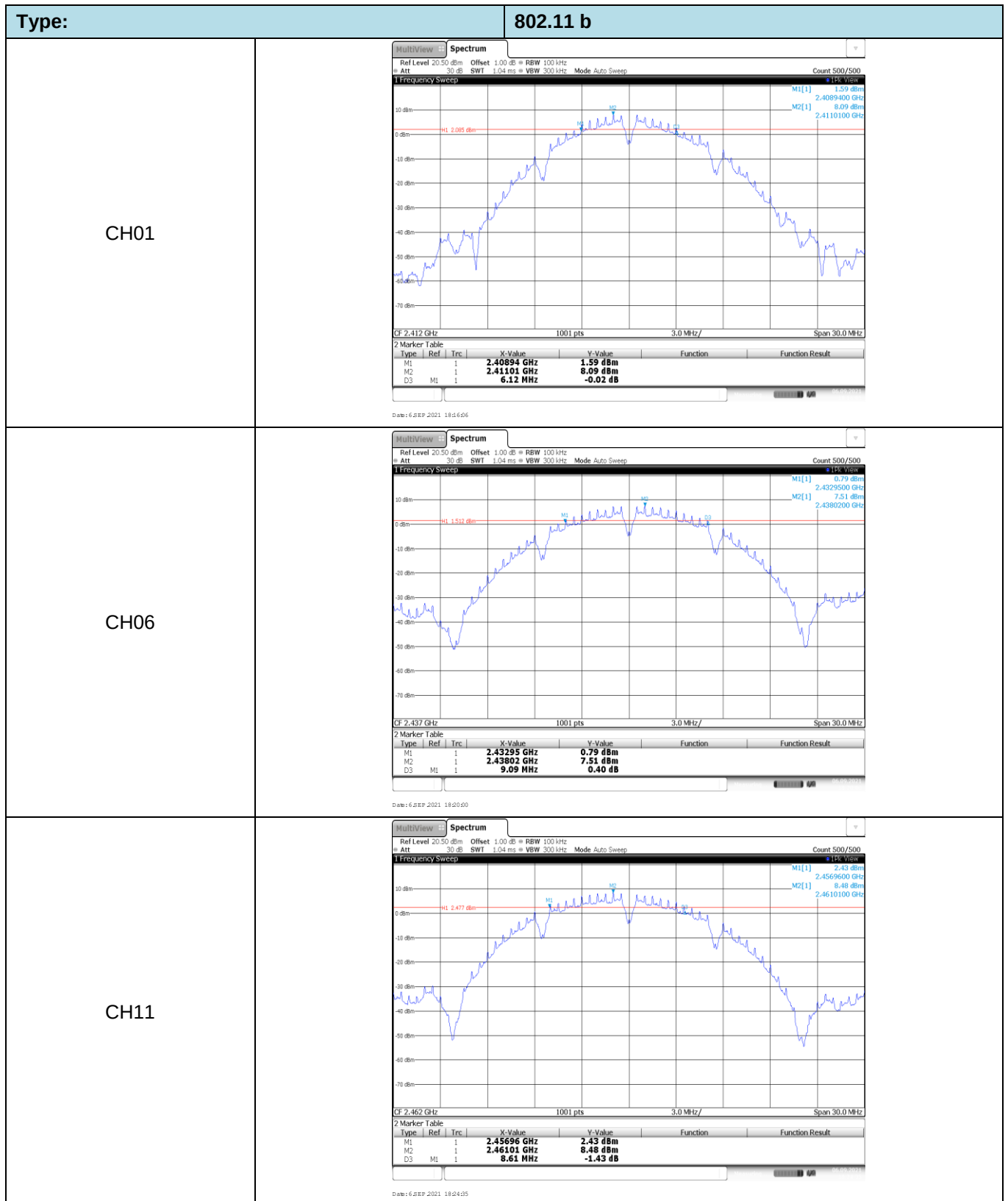
Type:		802.11 g
CH01	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -0.91 dBm 2.4107260 GHz  CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 6 SEP 2021 18:28:29	
CH06	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -3.34 dBm 2.4394730 GHz  CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 6 SEP 2021 18:31:28	
CH11	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -1.20 dBm 2.4543320 GHz  CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 6 SEP 2021 18:35:14	

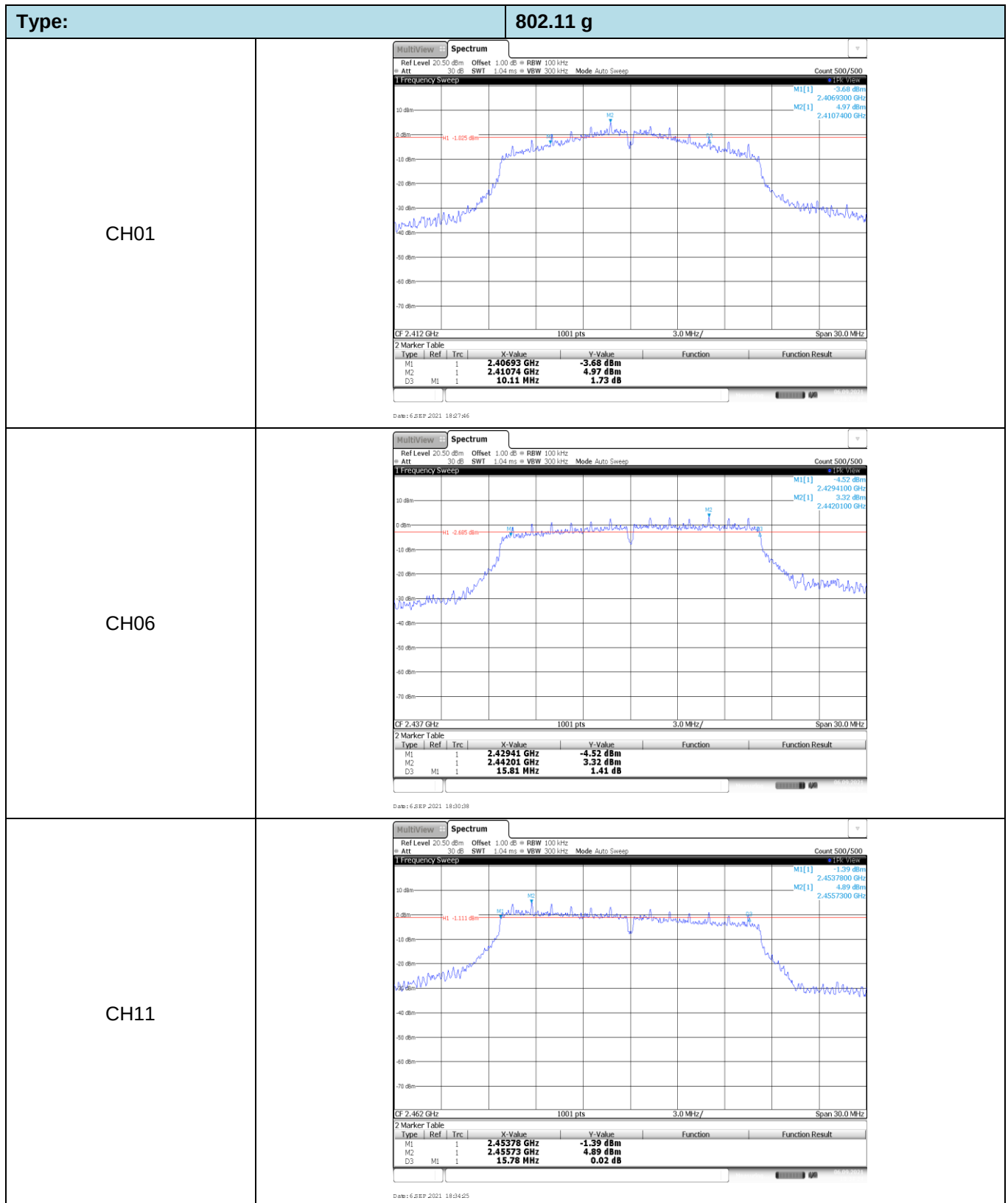


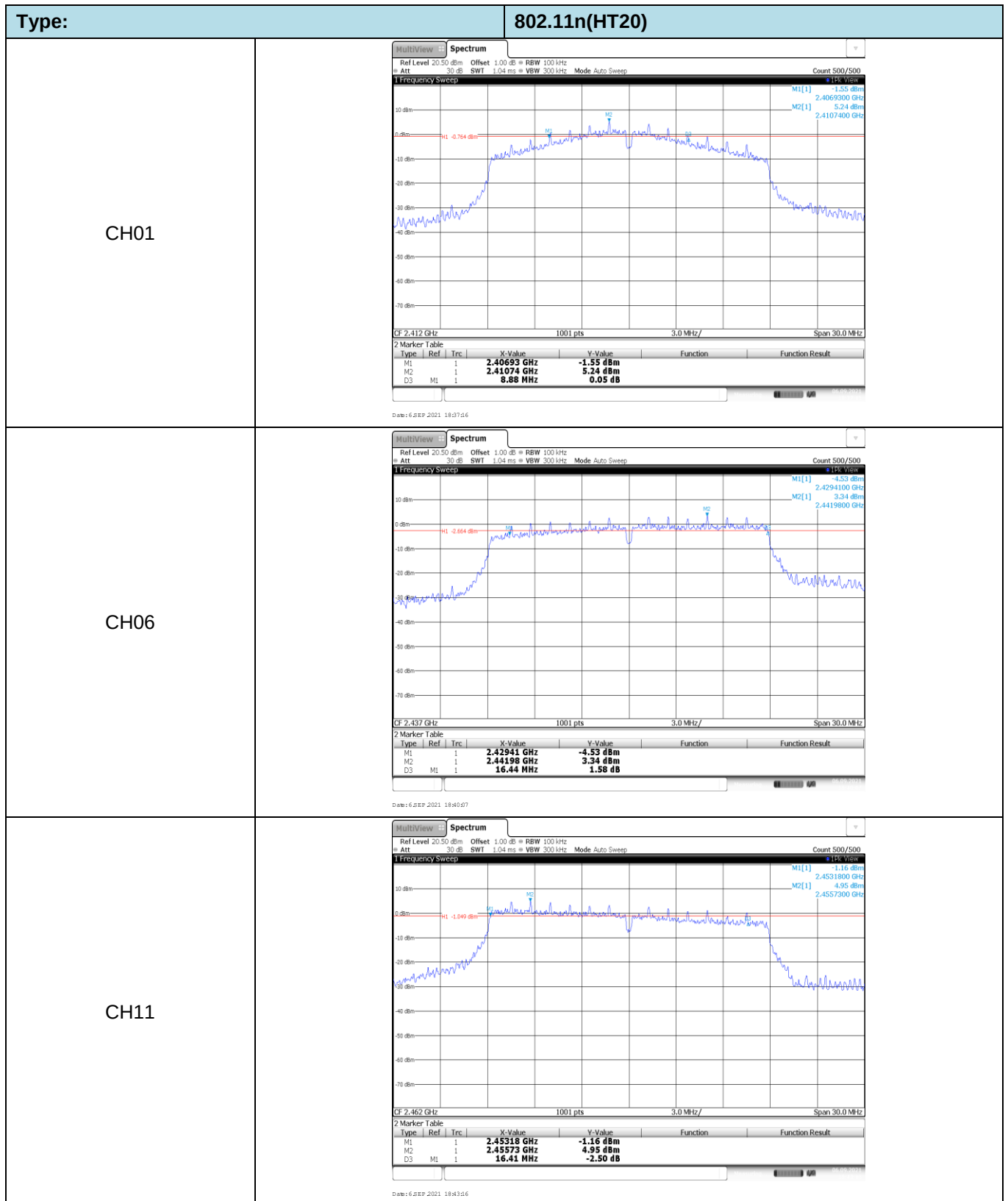


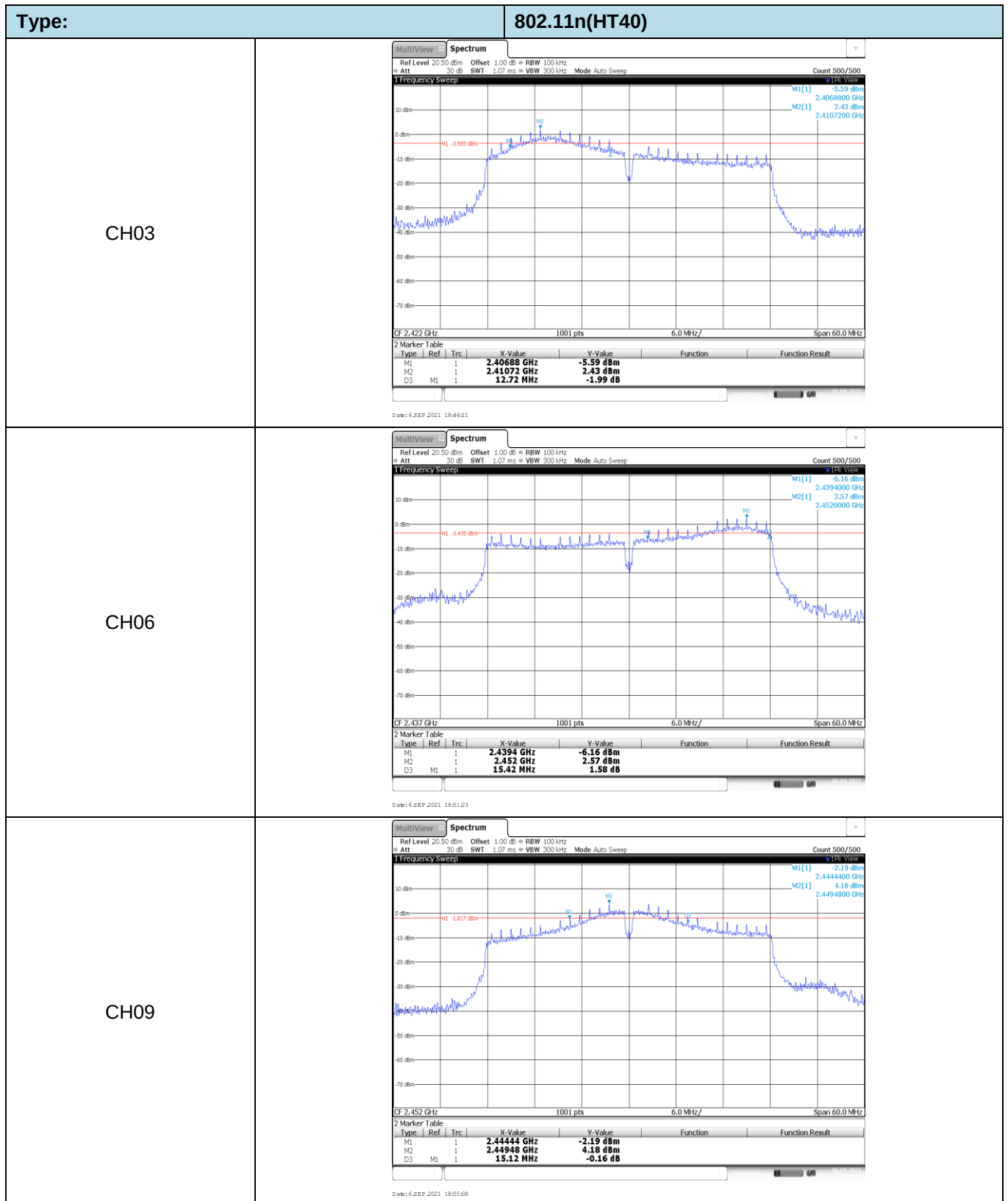
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	6.12	≥0.5	Pass
	06	9.09		
	11	8.61		
802.11g	01	10.11	≥0.5	Pass
	06	15.81		
	11	15.78		
802.11n(HT20)	01	8.88	≥0.5	Pass
	06	16.44		
	11	16.41		
802.11n(HT40)	03	12.72	≥0.5	Pass
	06	15.42		
	09	15.12		



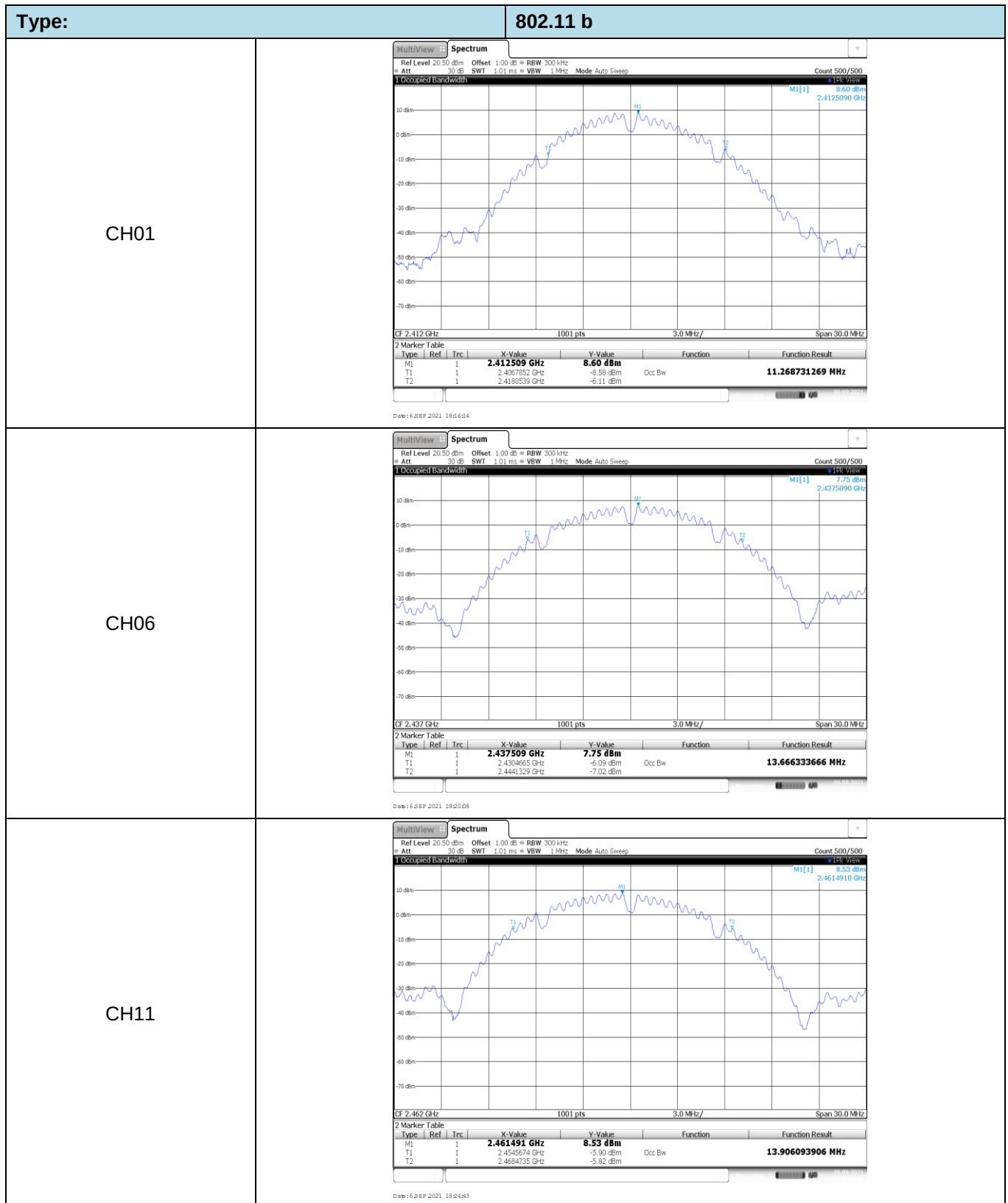


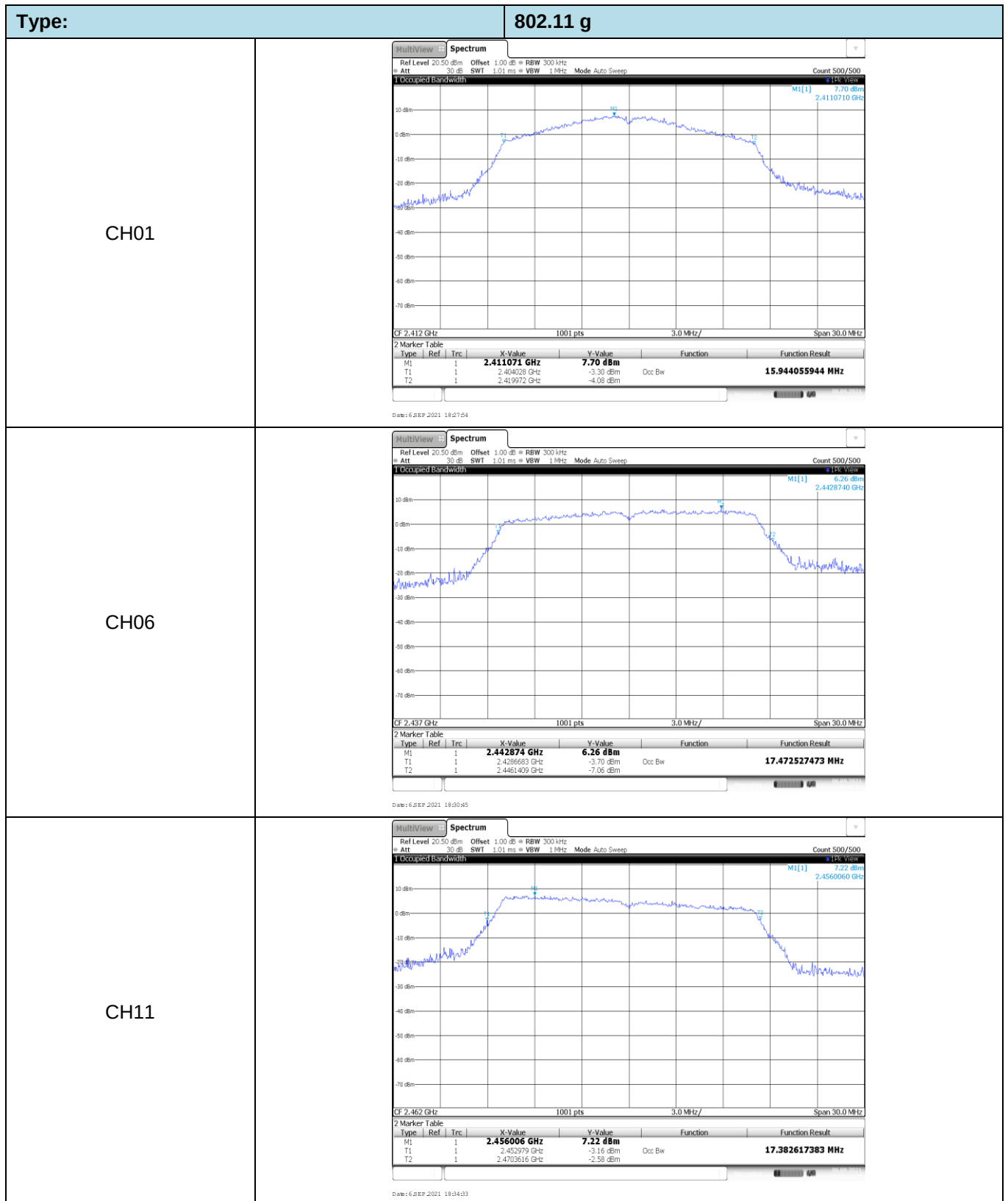


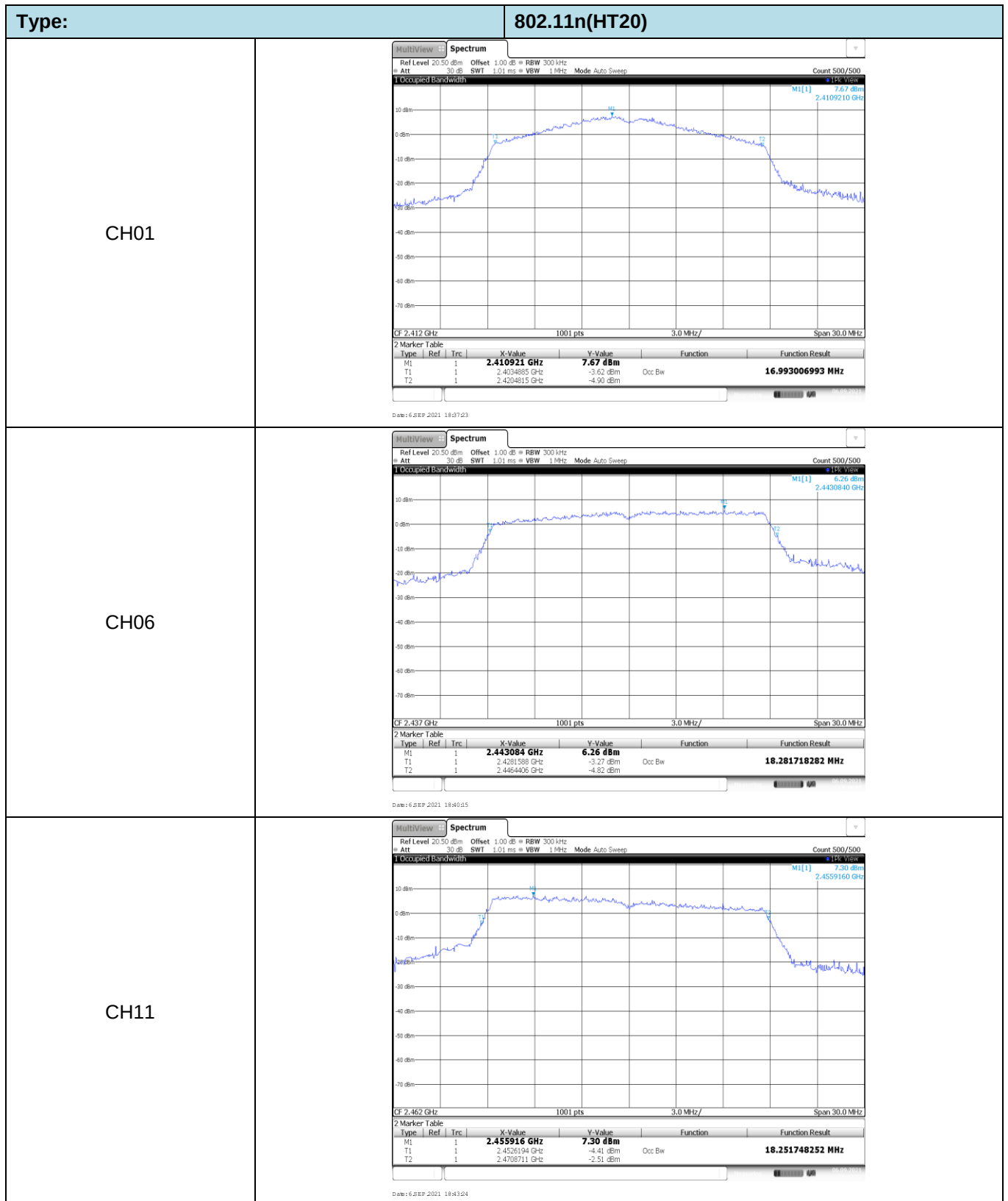


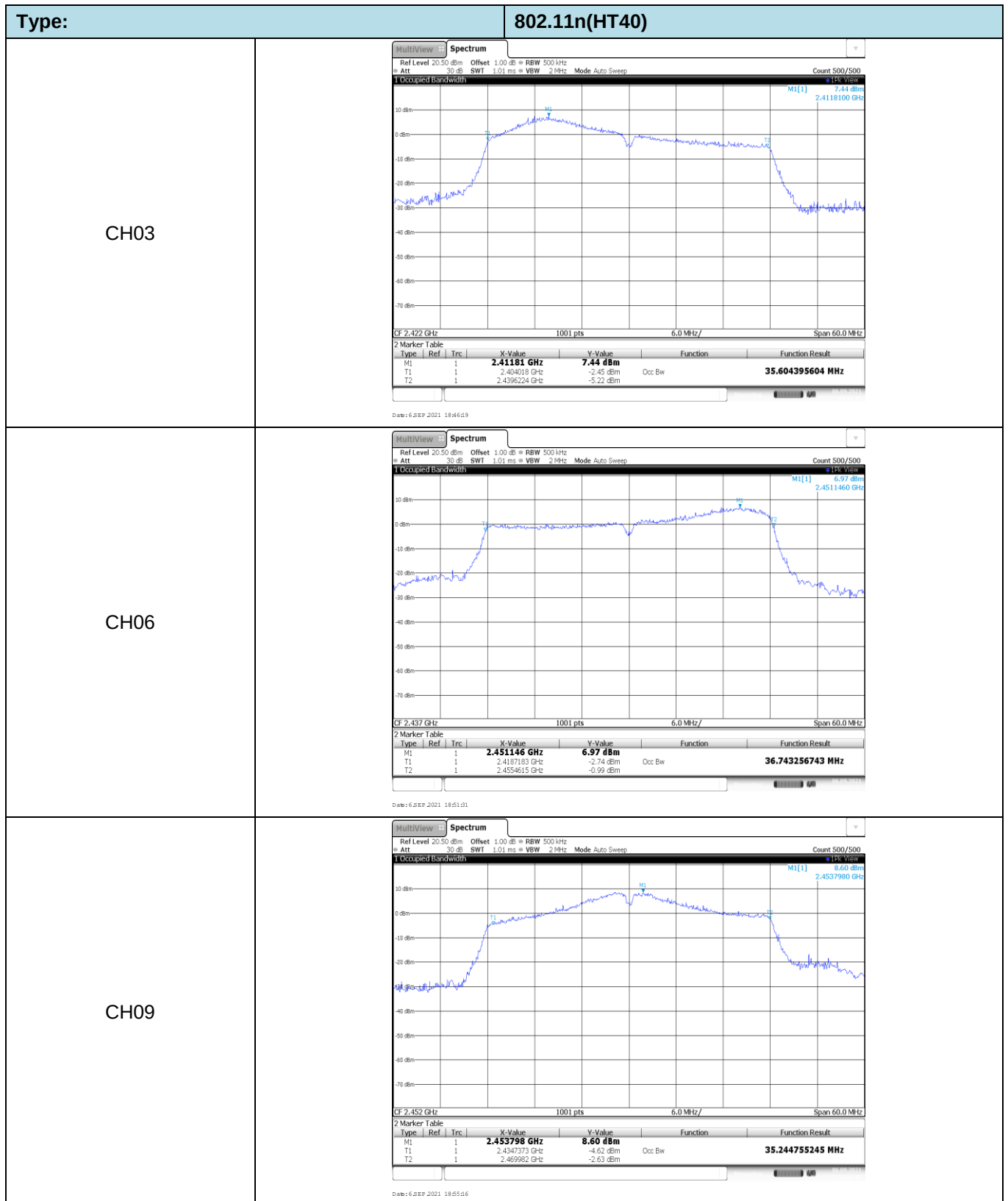
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	11.27	-	Pass
	06	13.67		
	11	13.91		
802.11g	01	15.94	-	Pass
	06	17.47		
	11	17.38		
802.11n(HT20)	01	16.99	-	Pass
	06	18.28		
	11	18.25		
802.11n(HT40)	03	35.60	-	Pass
	06	36.74		
	09	35.24		





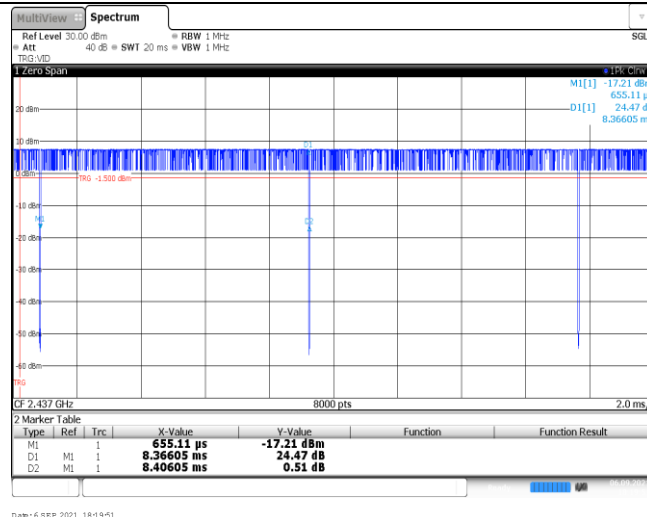




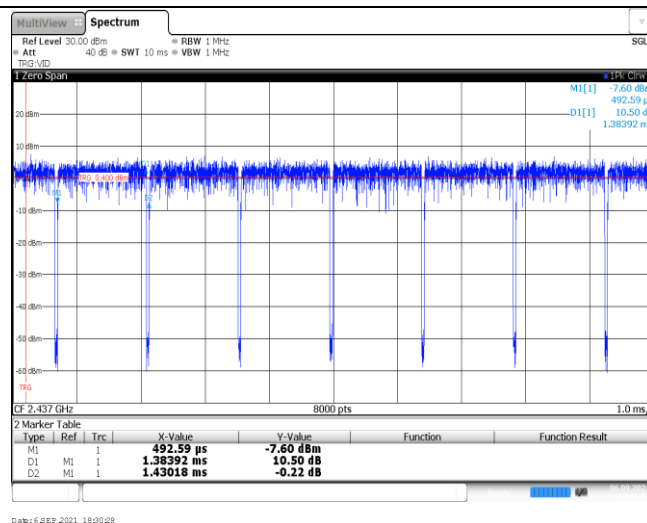
Appendix E: Duty Cycle

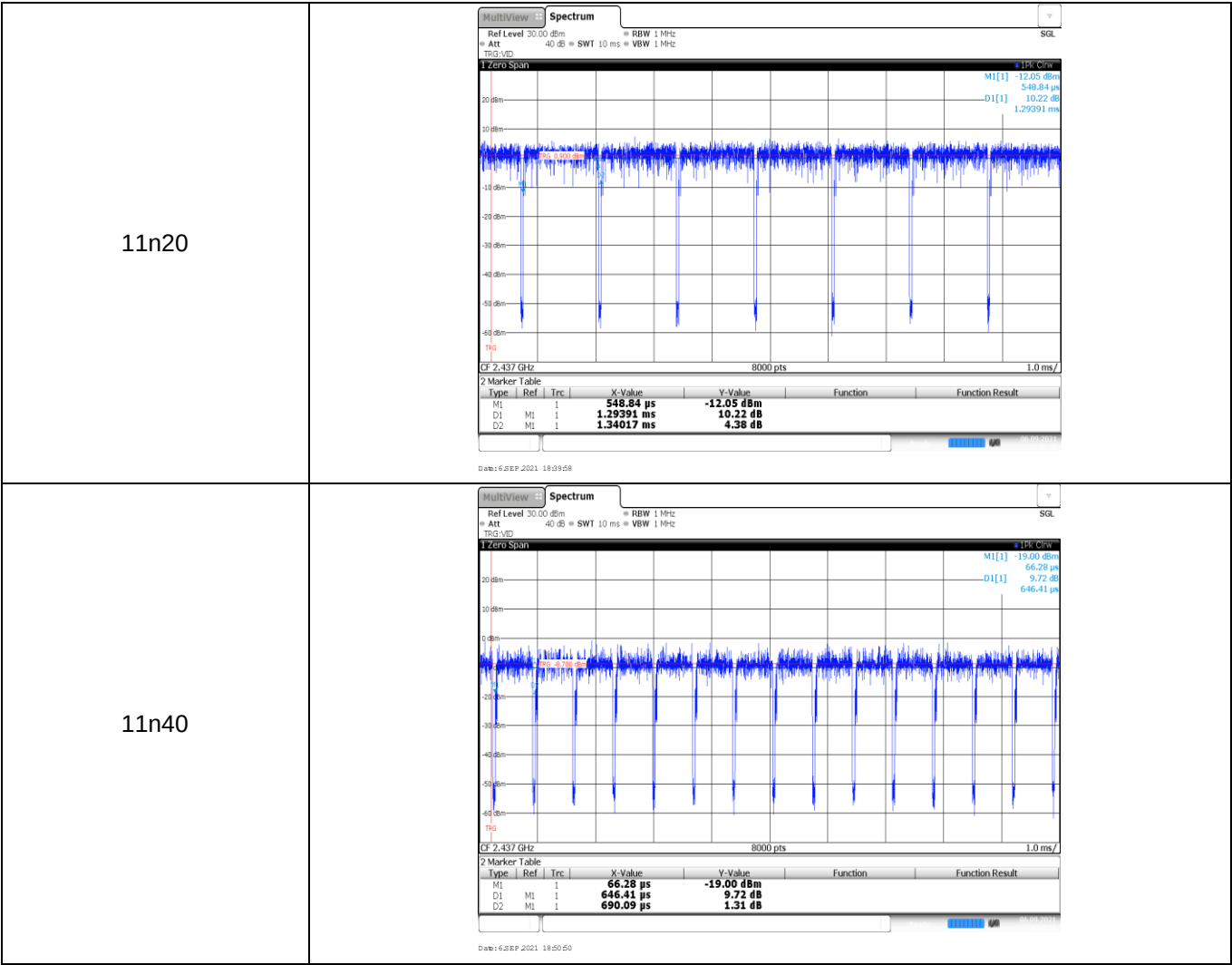
Modulation Type	Test Frequency (MHz)	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	8.37	8.41	99.5%	0.1
11g	2437	1.38	1.43	96.5%	0.7
11n20	2437	1.29	1.34	96.3%	0.8
11n40	2437	0.65	0.69	94.2%	1.5

11b



11g



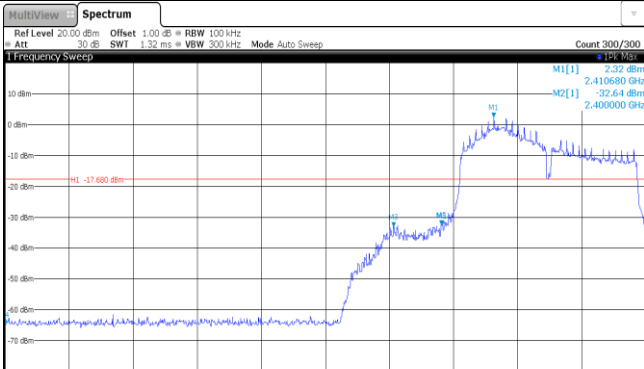
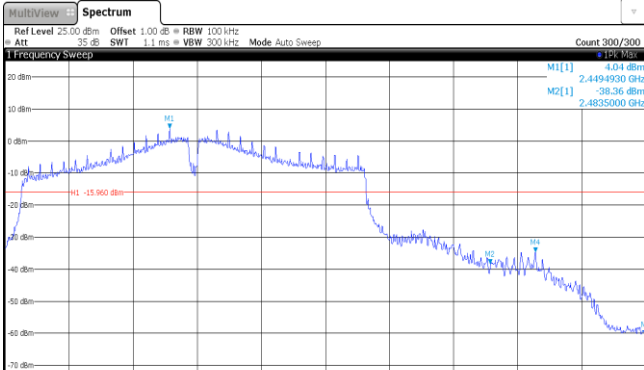


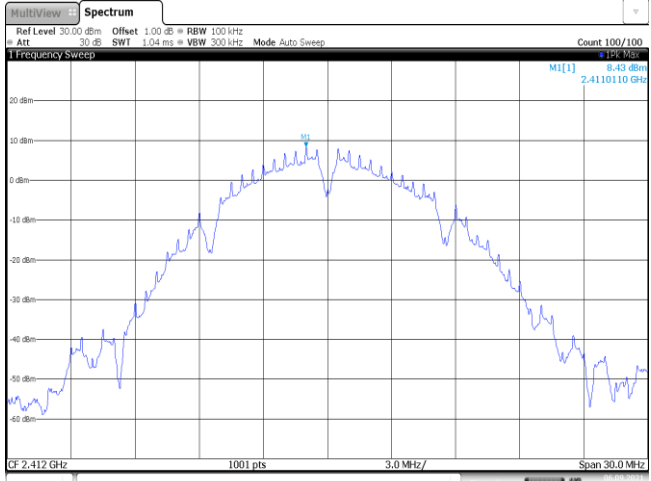
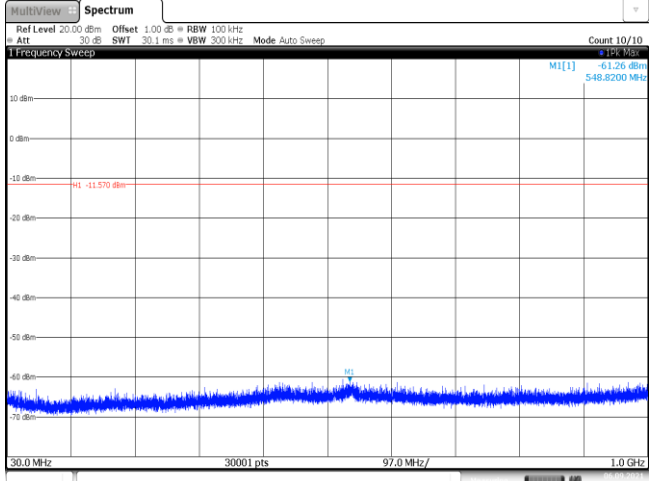
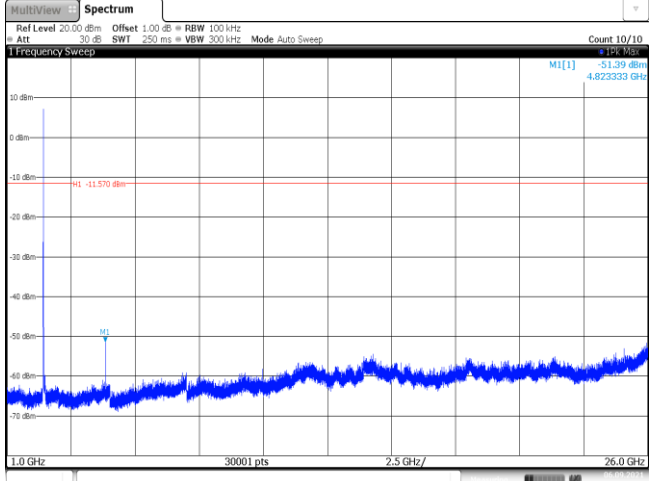
Appendix F: Band edge and Spurious Emissions (conducted)

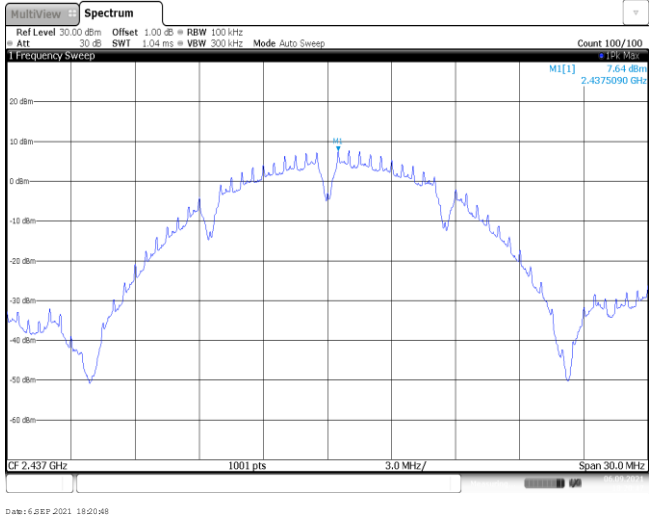
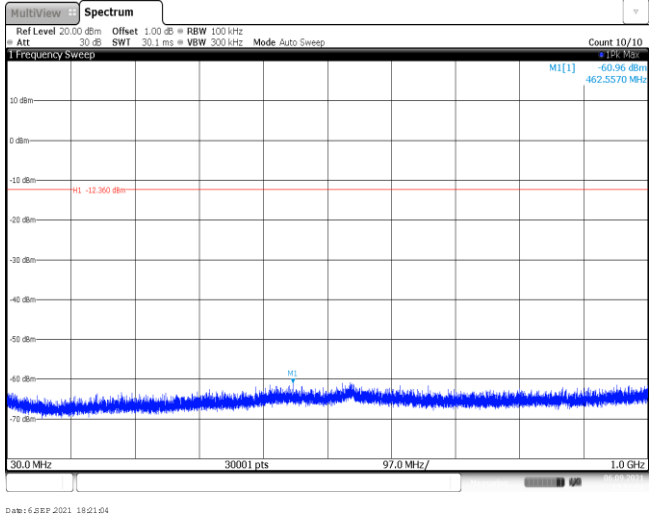
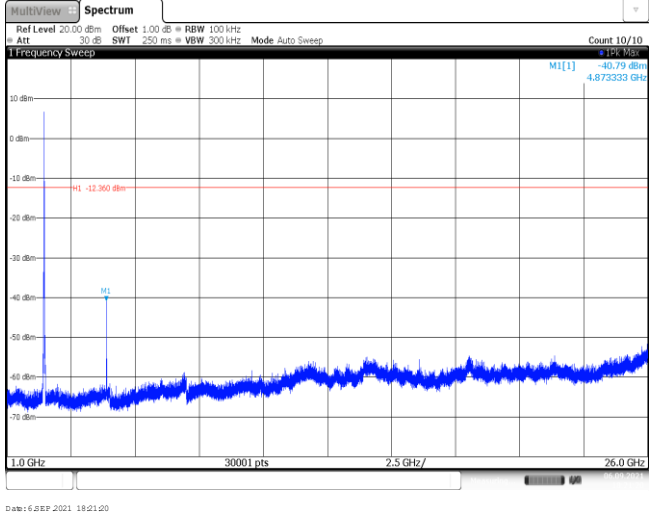
Test Item:	Bandedge	Type:	802.11 b																																										
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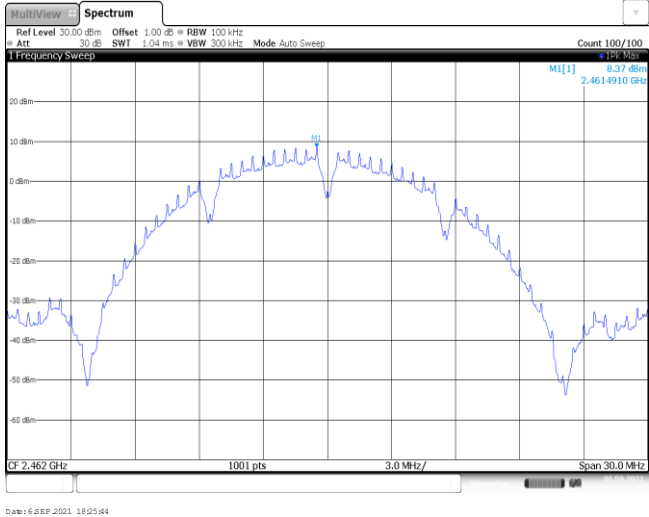
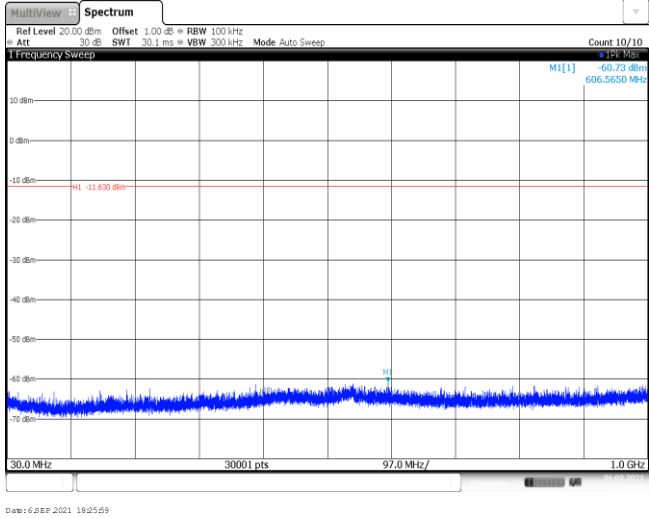
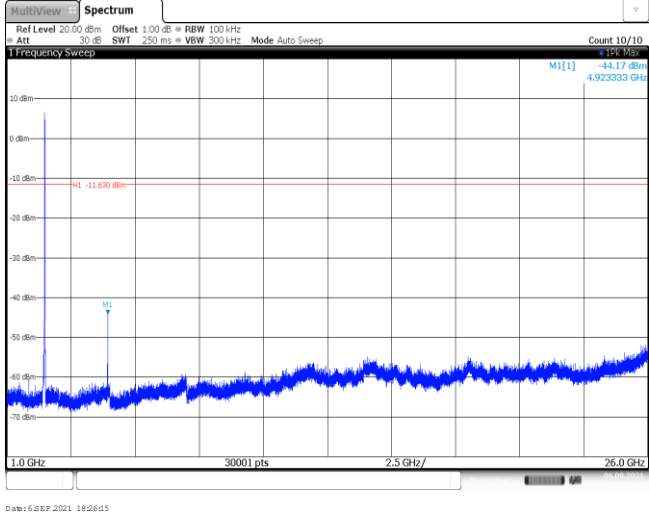
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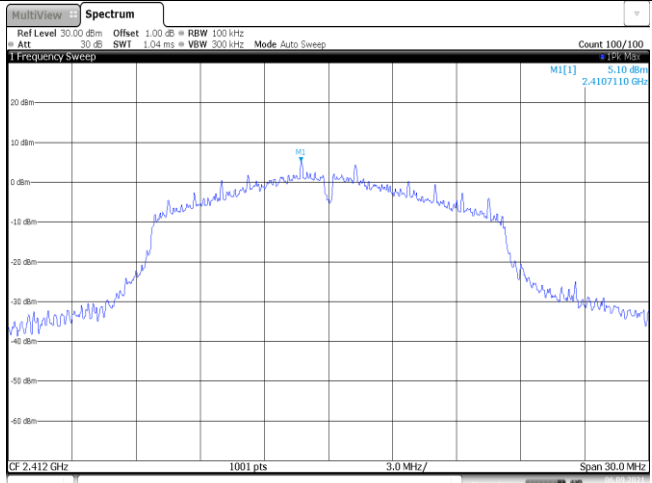
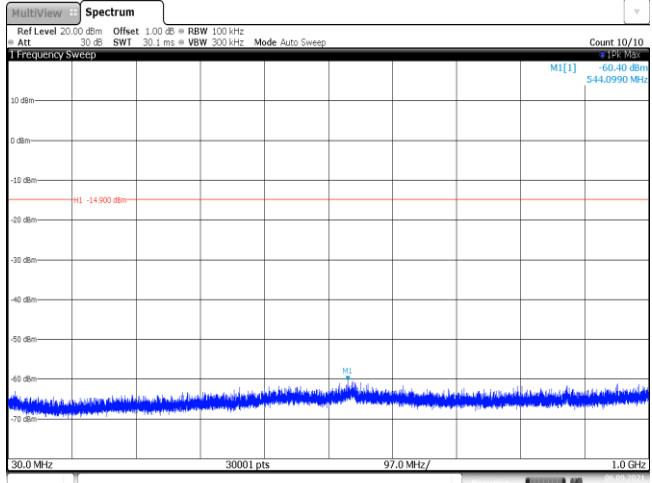
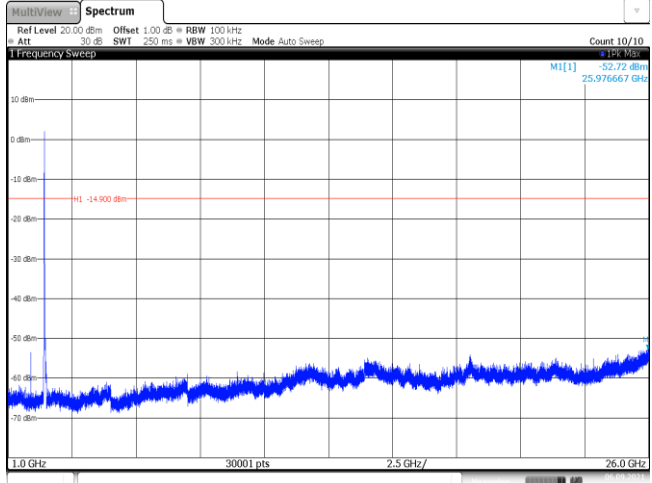
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M4	1		2.31 GHz	-64.09 dBm																																									
M5	1		2.399712 GHz	-31.85 dBm																																									
CH11	MultViewSpectrum Ref Level 25.00 dBm Offset 1.00 dB BW 100 kHz Att 35 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep M11] 4.80 dBm 2.4557160 GHz M21] -42.27 dBm 2.4835000 GHz M1 -15.200 dBm 2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.455716 GHz</td><td>4.80 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-42.27 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.15 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483872 GHz</td><td>-39.65 dBm</td><td></td><td></td></tr></table> Date: 6 SEP 2021 18:44:26			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.455716 GHz	4.80 dBm			M2	1		2.4835 GHz	-42.27 dBm			M3	1		2.5 GHz	-59.15 dBm			M4	1		2.483872 GHz	-39.65 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.455716 GHz	4.80 dBm																																									
M2	1		2.4835 GHz	-42.27 dBm																																									
M3	1		2.5 GHz	-59.15 dBm																																									
M4	1		2.483872 GHz	-39.65 dBm																																									

Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.32 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep  2.31 GHz 1001 pts 13.2 MHz/ 2.442 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.41068 GHz</td><td>-2.32 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-32.64 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-33.17 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.69 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399892 GHz</td><td>-32.45 dBm</td><td></td><td></td></tr></table> Date: 6 SEP 2021 18:47:04			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41068 GHz	-2.32 dBm			M2	1		2.4 GHz	-32.64 dBm			M3	1		2.39 GHz	-33.17 dBm			M4	1		2.31 GHz	-63.69 dBm			M5	1		2.399892 GHz	-32.45 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41068 GHz	-2.32 dBm																																									
M2	1		2.4 GHz	-32.64 dBm																																									
M3	1		2.39 GHz	-33.17 dBm																																									
M4	1		2.31 GHz	-63.69 dBm																																									
M5	1		2.399892 GHz	-32.45 dBm																																									
CH09	MultiViewSpectrum Ref Level 25.00 dBm Offset 1.00 dB BW 100 kHz Att 35 dB SWI 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep  2.432 GHz 1001 pts 6.8 MHz/ 2.5 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.449493 GHz</td><td>4.04 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-38.36 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.30 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.488304 GHz</td><td>-34.73 dBm</td><td></td><td></td></tr></table> Date: 6 SEP 2021 18:57:44			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.449493 GHz	4.04 dBm			M2	1		2.4835 GHz	-38.36 dBm			M3	1		2.5 GHz	-59.30 dBm			M4	1		2.488304 GHz	-34.73 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.449493 GHz	4.04 dBm																																									
M2	1		2.4835 GHz	-38.36 dBm																																									
M3	1		2.5 GHz	-59.30 dBm																																									
M4	1		2.488304 GHz	-34.73 dBm																																									

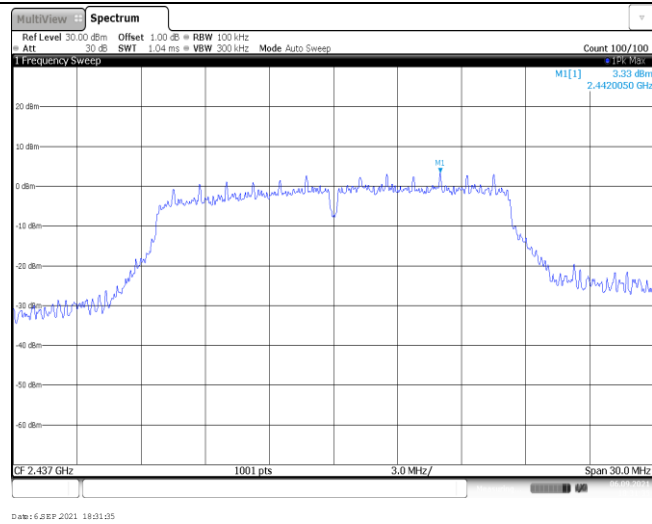
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

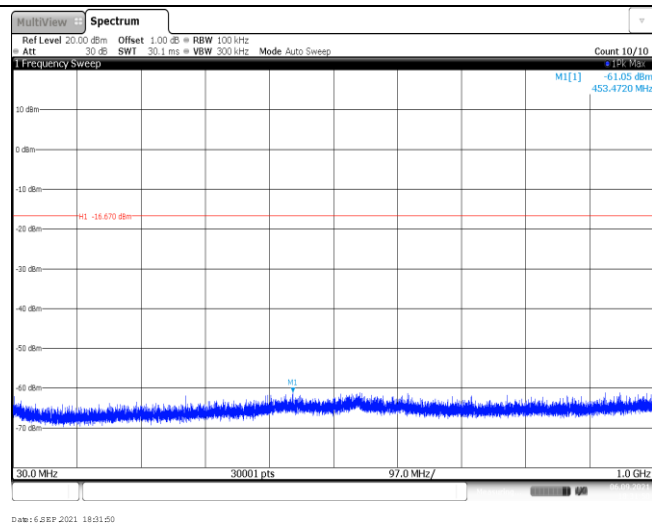
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

Test Item:	SE	Type:	802.11g
CH01 Reference level		 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 Frequency Sweep dBm 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz MI[1] 5.10 dBm 2.4107110 GHz Date: 6 SEP 2021 18:28:45	
CH01 30MHz~1000MHz		 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 Frequency Sweep dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz MI[1] -60.40 dBm 544.0990 MHz MI -14.900 dBm Date: 6 SEP 2021 18:29:01	
CH01 1GHz~26GHz		 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 Frequency Sweep dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz MI[1] -52.72 dBm 25.976667 GHz MI -14.900 dBm Date: 6 SEP 2021 18:29:17	

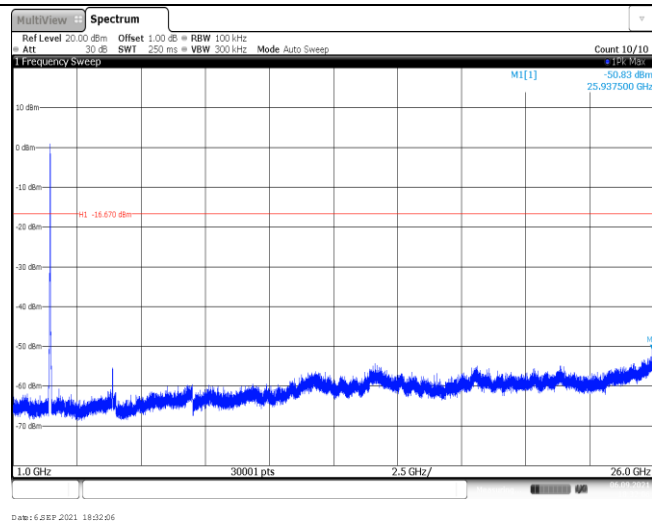
CH06
Reference level

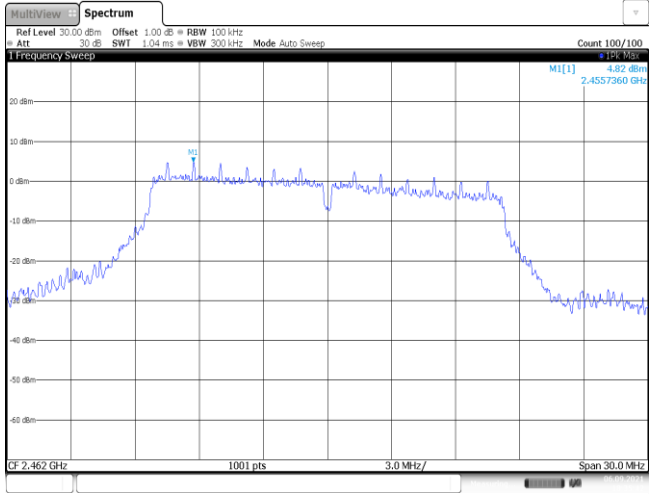
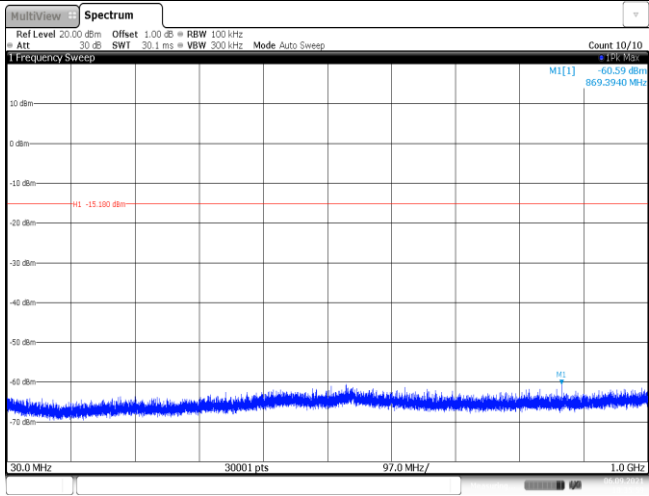
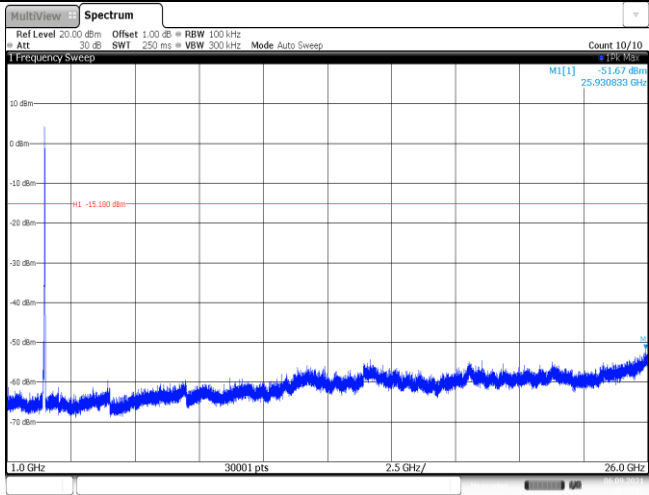


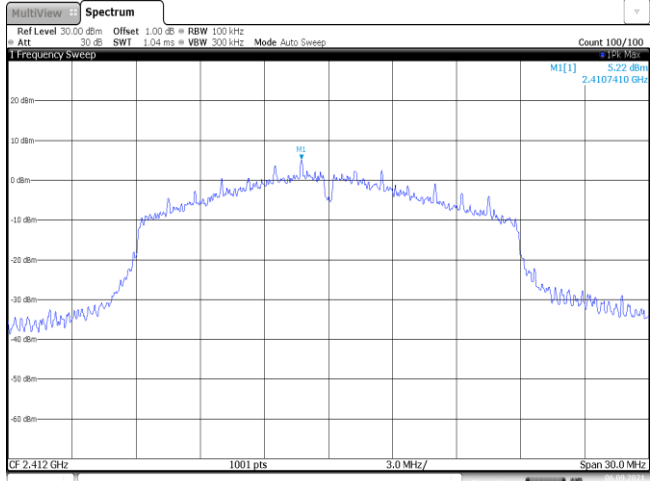
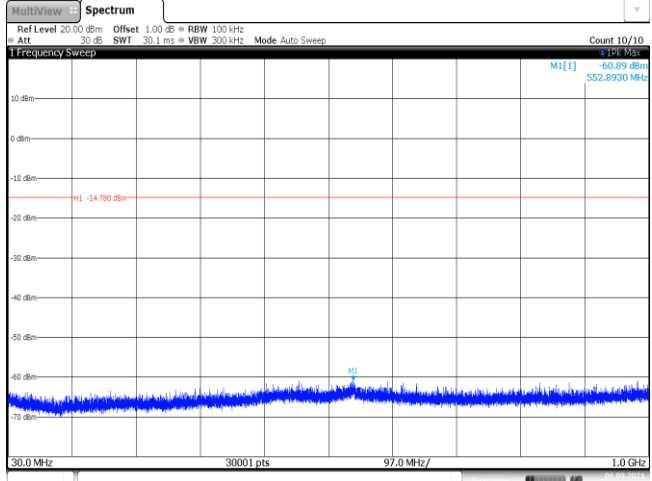
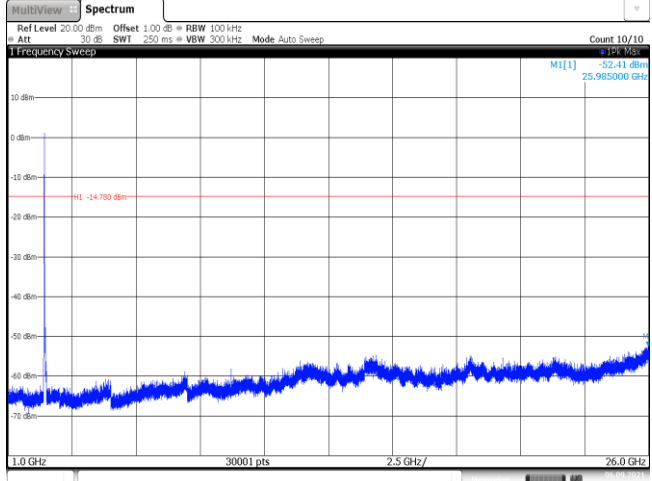
CH06
30MHz~1000MHz

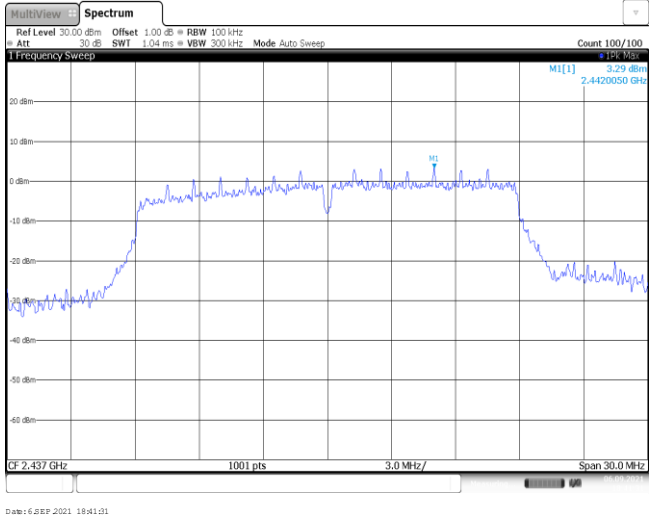
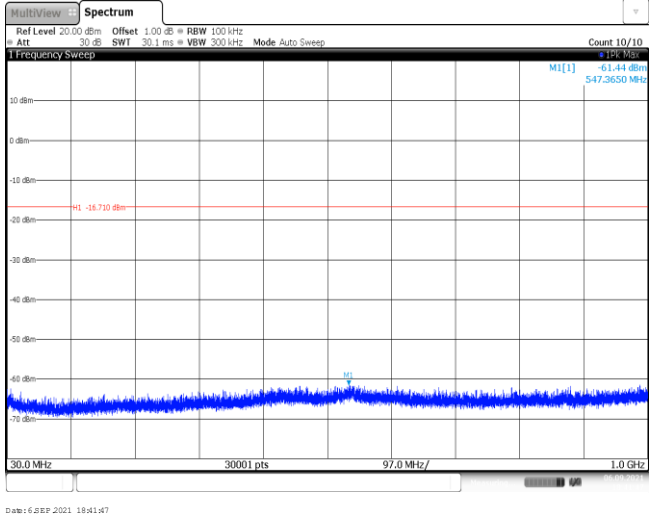
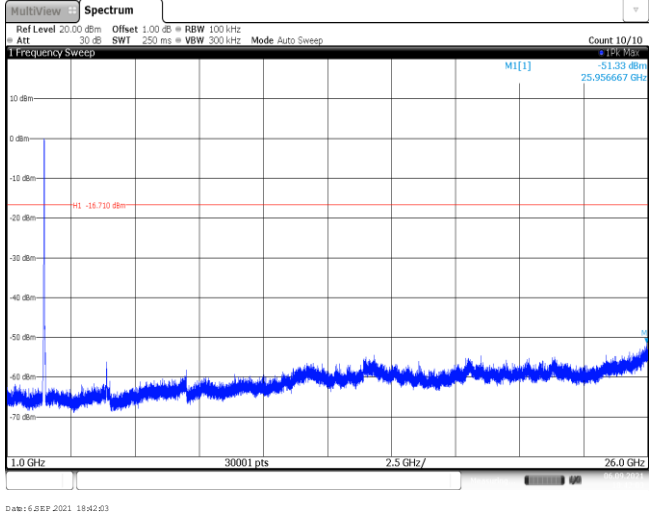


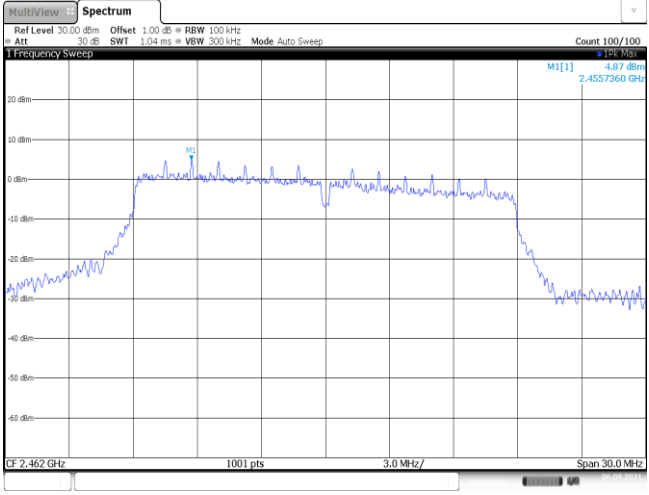
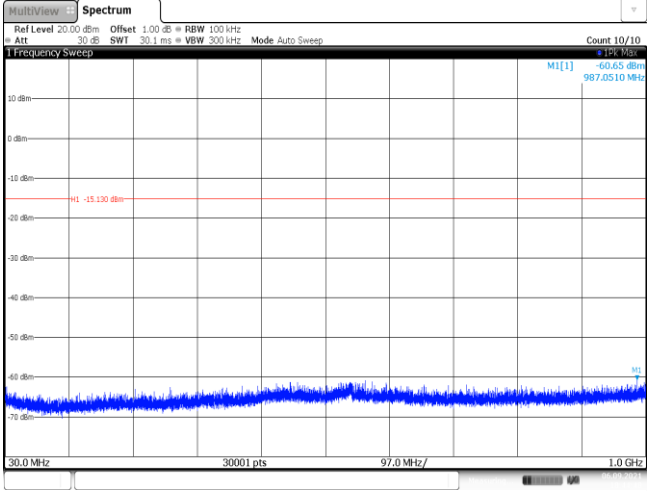
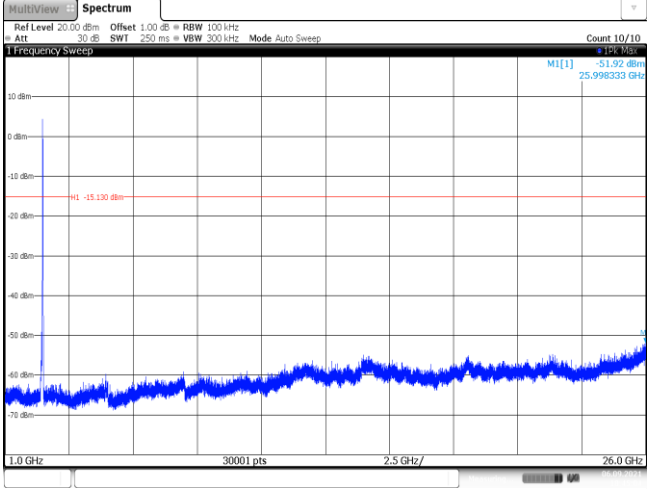
CH06
1GHz~26GHz

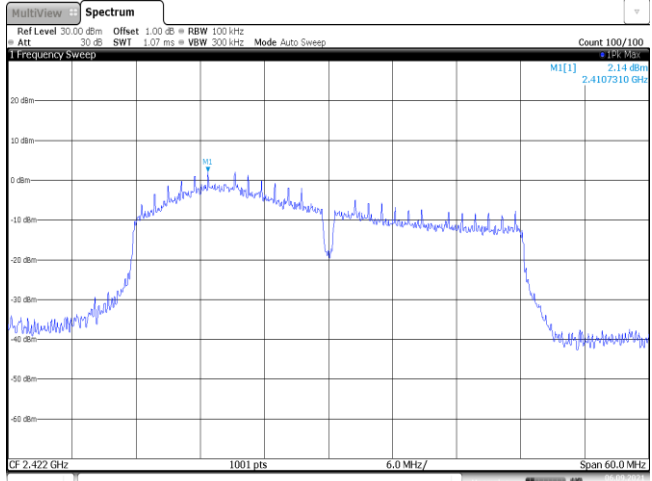
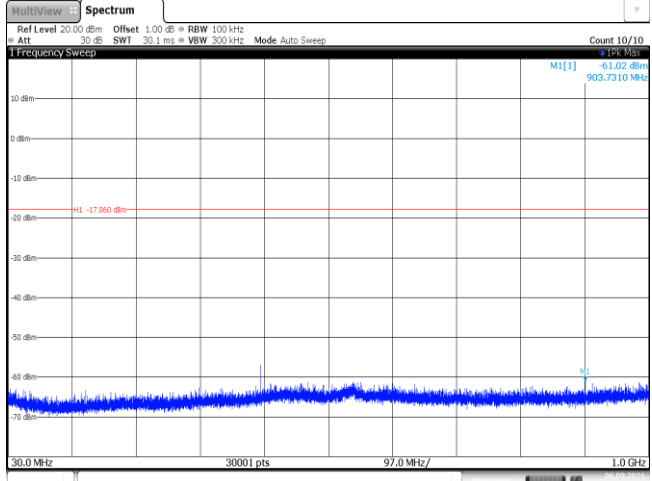
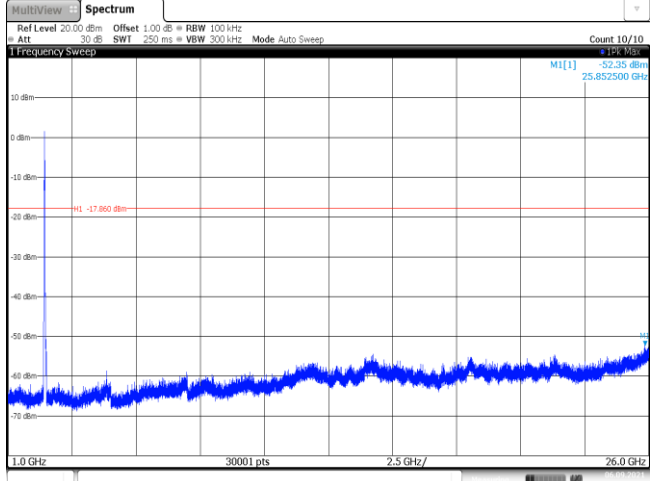


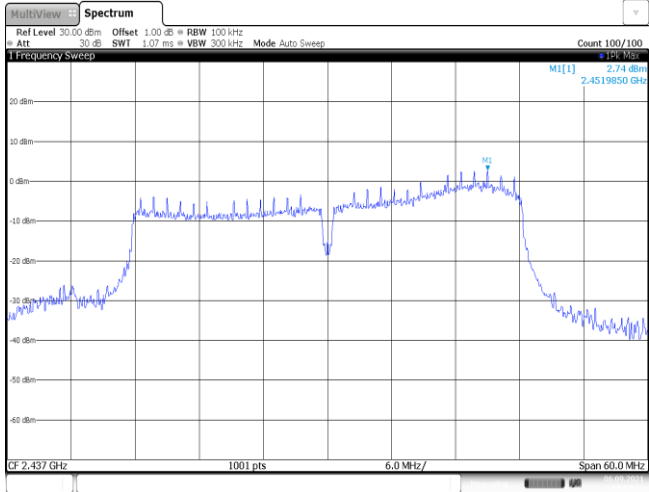
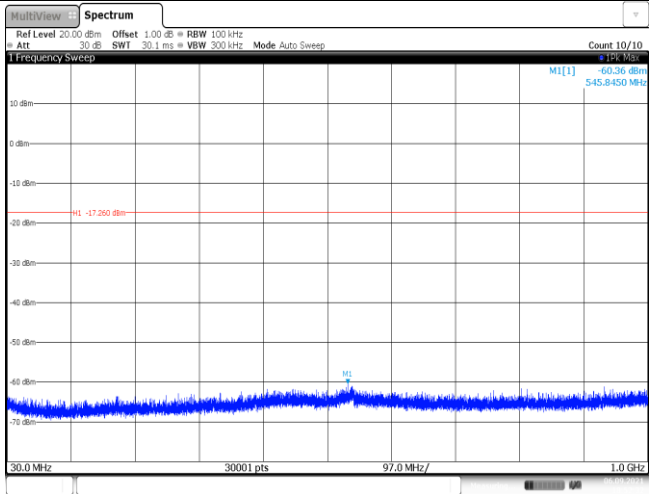
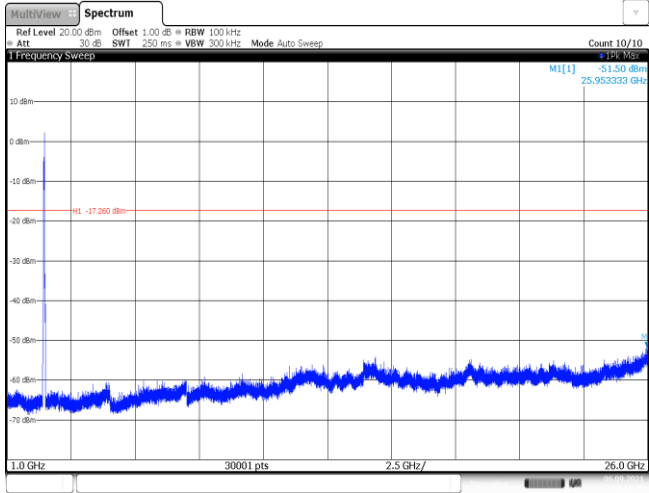
CH11 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1 1 -4.82 dBm 2.4557360 GHz CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 6 SEP 2021 18:25:43
CH11 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1 1 -60.59 dBm 869.3940 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 6 SEP 2021 18:25:59
CH11 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1 1 -51.67 dBm 25.930833 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 6 SEP 2021 18:26:15

Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

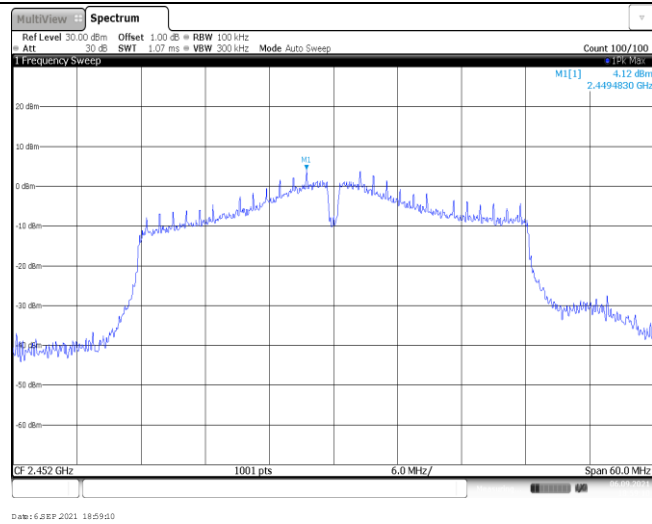
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

CH11 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1 1] -4.87 dBm 2.4557360 GHz CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 6 SEP 2021 18:44:32
CH11 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1 1] -60.65 dBm 987.0510 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 6 SEP 2021 18:44:48
CH11 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1 1] -51.92 dBm 25.998333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 6 SEP 2021 18:45:04

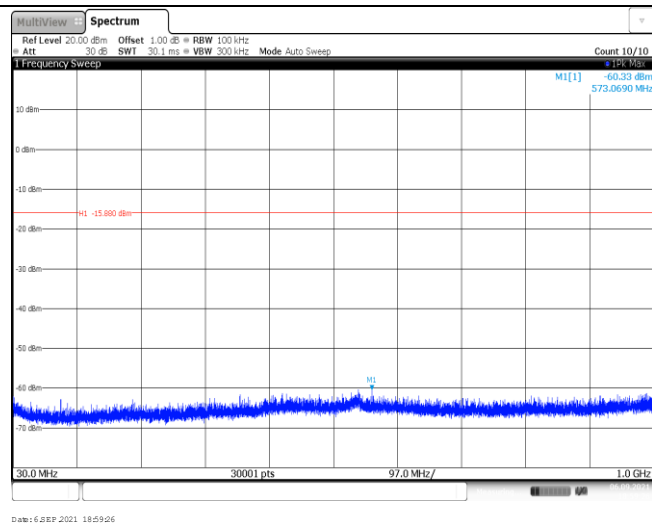
Test Item:	SE	Type:	802.11n(HT40)
CH03 Reference level			
CH03 30MHz~1000MHz			
CH03 1GHz~26GHz			

CH06 Reference level	 The spectrum plot shows a frequency sweep from 2.437 GHz to 2.4519850 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The plot shows a signal level around -10 dBm with some noise. The x-axis is labeled with 1001 pts and 6.0 MHz/.
CH06 30MHz~1000MHz	 The spectrum plot shows a frequency sweep from 30.0 MHz to 1.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The plot shows a signal level around -60 dBm with some noise. The x-axis is labeled with 30001 pts and 97.0 MHz/.
CH06 1GHz~26GHz	 The spectrum plot shows a frequency sweep from 1.0 GHz to 26.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The plot shows a signal level around -51.50 dBm with some noise. The x-axis is labeled with 30001 pts and 2.5 GHz/.

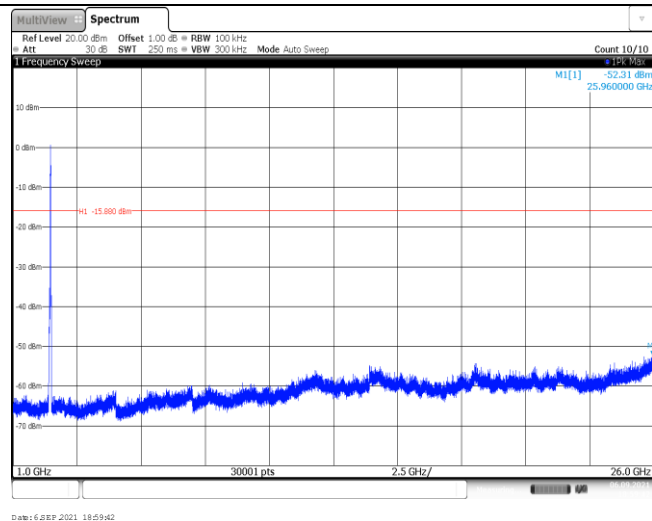
CH09
Reference level



CH09
30MHz~1000MHz



CH09
1GHz~26GHz



-----End of Report-----